

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/757,344	01/09/2001	Pierre Jean Francois Layrolle	04148-00005	8849
759	90 01/10/2003	ì		
John P. Iwanicki BANNER & WITCOFF, LTD. 28th Floor		EXAMINER		
			MICHENER, JENNIFER KOLB	
28 State Street	1100		ART UNIT	PAPER NUMBER
Boston, MA 02	2109		1762	
		·	DATE MAILED: 01/10/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

			\$
		Application No.	Applicant(s)
		09/757,344	LAYROLLE ET AL.
	Office Action Summary	Examin r	Art Unit
		Jennifer Kolb Michener	1762
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with th	correspondence address
THE - Exte after - If the - If NC - Failu - Any I	ORTENED STATUTORY PERIOD FOR REPL' MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a repl period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be till by within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from a Cause the application to become ABANDONI	mely filed ys will be considered timely. the mailing date of this communication. FD (35 U.S.C. 8 133)
1)🛛	Responsive to communication(s) filed on 04 I	November 2002 .	
2a)⊠	This action is FINAL . 2b) Th	nis action is non-final.	
3)☐ Dispositi	Since this application is in condition for allowationsed in accordance with the practice under ion of Claims	ance except for formal matters, p Ex parte Quayle, 1935 C.D. 11,	prosecution as to the merits is 453 O.G. 213.
4) 🖂	Claim(s) 27-45 is/are pending in the application	on.	
	4a) Of the above claim(s) is/are withdraw	wn from consideration.	
	Claim(s) is/are allowed.		
6)⊠	Claim(s) <u>27-45</u> is/are rejected.		
7)	Claim(s) is/are objected to.		
8) 🗌	Claim(s) are subject to restriction and/o	r election requirement.	
	on Papers	•	
9) 🗌 -	The specification is objected to by the Examine	г.	
10) 🔲 🗆	The drawing(s) filed on is/are: a)□ accep	oted or b) objected to by the Exa	miner.
	Applicant may not request that any objection to the		
11) 🔲 -	The proposed drawing correction filed on	_is: a)□ approved b)□ disappro	oved by the Examiner.
_	If approved, corrected drawings are required in rep	•	
	Γhe oath or declaration is objected to by the Ex	aminer.	
Priority u	inder 35 U.S.C. §§ 119 and 120		
13)⊠	Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	a)-(d) or (f).
a)[☐ All b) ☐ Some * c) ☐ None of:		
	1. Certified copies of the priority documents	s have been received.	
	Certified copies of the priority documents	s have been received in Applicati	ion No
	 Copies of the certified copies of the prior application from the International Bur ee the attached detailed Office action for a list of 	reau (PCT Rule 17.2(a)).	_
14)□ A	cknowledgment is made of a claim for domestic	c priority under 35 U.S.C. § 119(e) (to a provisional application).
	☐ The translation of the foreign language procedure. The translation of the foreign language procedure. The translation of the foreign language procedure.		
Attachment	(s)		
2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)
S. Patent and Tra TO-326 (Rev		tion Summary	Part of Paper No. 14

Art Unit: 1762

DETAILED ACTION

Claim Rejections - 35 USC § 102

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

1. Claims 27-33 and 36-43 are rejected under 35 U.S.C. 102(e) as being anticipated by Leitao.

Examiner maintains the rejection.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

2. Claims 34-35 and 44-45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Leitao.

Examiner maintains the rejection.

3. Claims 27-28 and 32-36 are rejected under 35 U.S.C. 103(a) as being unpatentable over Li.

Examiner maintains the rejection.

7. The rejection of claims 27-28 under 35 U.S.C. 103(a) as being unpatentable over Nonami has been withdrawn.

Art Unit: 1762

Response to Arguments

8. Applicant's arguments filed 11/4/2002 have been fully considered but those made in regard to Leitao and Li are not persuasive.

Applicant argues that Leitao does not teach a bond strength, especially in light of the Kokubo reference.

It is Examiner's position that the bond strength of Leitao is inherently within the range claimed by Applicant. Leitao teaches a coated implant with a coating, wherein the coating comprises a deposit of octacalcium phosphate crystals nucleated directly on the implant from solution wherein said coating comprises magnesium, calcium, and phosphate ions and induces formation of bone cells. Because the same chemicals are nucleated onto the same pre-treated surfaces, the bond strength between the implants and coatings of Leitao and Applicant will inherently be the same. Since every other limitation of Applicant's is met by Leitao, then an intrinsic property, such as bond strength, must also be met. If Leitao's bond differs from that of Applicant's it must be due to some limitation not present in Applicant's claims. Regarding Kokubo, Examiner has withdrawn this rejection because the Kokubo reference did not meet all of the limitations of the claims. Therefore Kokubo could not inherently teach the same bond strength as Applicant or as Leitao. The different implant as taught by Kokubo can not be used to determine inherent properties of Leitao.

Art Unit: 1762

Applicant argues that no reference has been provided to teach that the bond strength of Leitao is inherently within the range of Applicant's.

Examiner cites Applicant's own specification and claims. A coated implant with a coating of octacalcium phosphate crystals nucleated directly on the implant from solution to induce formation of bone cells is said to have a bond strength of 40-65 MPa. Because Leitao teaches all of the product limitations required by the claims, Leitao's product must also have the same bond strength. If it does not, then the bond strength differs due to some limitation not required by the claims.

Applicant argues that the Li reference is indefinite as the bond strength range is an open-ended variable.

Examiner maintains that Li's range of 30 MPa or greater overlaps that of Applicant's. Additionally, all other limitations of the claims are met by Li. Therefore Li inherently specifically requires the bond strength of Applicant. If the bond strength of Li is different than Applicant's range of 40-65 MPa, it must be due to some limitation not present in Applicant's claims.

Conclusion

1. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

Application/Control Number: 09/757,344

Art Unit: 1762

TWO MONTHS of the mailing date of this final action and the advisory action is not

Page 5

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jennifer Kolb Michener whose telephone number is 703-

306-5462. The examiner can normally be reached on Monday through Thursday and

alternate Fridays. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Shrive P. Beck can be reached on 703-308-2333. The fax

phone numbers for the organization where this application or proceeding is assigned

are 703-305-3599 for regular communications and 703-305-3599 for After Final

communications. Any inquiry of a general nature or relating to the status of this

application or proceeding should be directed to the receptionist whose telephone

number is 703-308-0661.

Jennifer Kolb Michener

January 9, 2003

TECHNULOGY CENTER 1700